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10/621,102

07/17/2003

Stephen S. Ing

117891-156747

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09/05/2008

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EXAMINER

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ART UNIT

PAPER NUMBER

2621

MAIL DATE

DELIVERY MODE

09/05/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/621,102

Applicant(s)

ING ET AL.

Examiner

Tung Vo

Art Unit

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 June 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 38-61 is/are pending in the application.
- 4a) Of the above claim(s) 38-49 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 50-61 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-8508)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____
- Paper No(s)/Mail Date _____

DETAILED ACTION

Election/Restrictions

1. Newly submitted claims 38-49 directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: the scope of claims 38-49 shows an apparatus for quantization selecting to control compression, which is different from the method claims 50-61 that claims the method for determining the compression time and target period to adjust frame rate.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claim 38-49 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(c) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 50-61 are rejected under 35 U.S.C. 102(b) as being anticipated by Murakami et al. (US 5,442,401).

Re claims 50-61, Murakami et al. discloses a video compression system (fig 3) comprising a processor (10 of fig. 3); a bit rate controller (15, 155 of fig. 4; note an inference

means for inferring the control signal using a control rule based on the extent of motion detected by the motion detector and current coding parameters) to compress a video frame of raw video image data using said processor; and a video controller (15, 153 of fig. 4, note a detector detects motion over a predetermined sequence of frames from the past motion characteristics held in the first memory) coupled to said bit rate controller (155 of fig. 4) to determine whether the processor (10 of fig. 3) is limited in its ability to compress video image data (14 of fig. 3, Inter or Intra frame compression) based on whether a difference between a compression time (long, intermediate, and short; e.g. the short period of past motion characteristics is expressed as the temporal change (time differential of change or inclination) of the past produced information amounts of the short period; see also fig. 9; SHORT, TIME, TARGET VALUE) for current video frame and a target frame period exceeds a threshold amount (fig. 9), the determining to facilitate adjusting a target frame rate based at least in part on the compression time (155 and 16 of fig. 4).

Re claim 56, Murakami further discloses wherein said video controller is further to adjusted said target rate based on at least in part on the compression time (153 of fig. 4).

Re claim 57, Murakami further discloses wherein said video controller is configured to adjust said target frame rate to a value equal to a frame rate of the video capture divided by an integer divisor (fig. 14).

Re claim 58, Murakami further discloses wherein the frame rate of the video capture device is 30 frames per second and the integer divisor has a value between 1 and 30 (col. 1, lines 16-26).

Re claim 59, Murakami further discloses wherein the threshold amount corresponding to a predetermined portion of the target frame period (154 of fig. 4, long, intermediate, short, fig. 9).

Re claim 60, Murakami further discloses wherein a compressor including said bit rate controller, said compressor further including:

- a first queue to store the raw video image data (10 and 11 of fig. 3);
- a codec (14 of fig. 3) coupled to the first queue to compress the raw video image data;
- and
- a second queue coupled to the codec to store the compressed image data (18 of fig. 3).

Re claim 61, Murakami further discloses wherein the processor (10 of fig. 3) is to control the compression rate of the codec (inter or intra mode include compression rate controlling, 15 of fig. 3).

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung Vo whose telephone number is 571-272-7340. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tung Vo/
Primary Examiner, Art Unit 2621